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Workshop Fee

1. Full-time Students(UG,PG,Ph.D.): Rs. 500
2. Faculty: Rs. 750
3. Scientists (Govt. Inst.): Rs. 1000
4. Industry Professionals: Rs. 1500

The workshop fee includes course material and working lunch on workshop days. Expenses like travel, boarding, & lodging will have to be borne by the participants or their organizations. On prior request, guest house accommodation can be arranged. Students will be provided free accommodation in hostels. All registered participants will be given certificates.

(See workshop website for details)

Route to Pilani

http://discovery.bits-pilani.ac.in/how_to_reach.html

Mailing Address

Dr. Poonam Goyal

WIGGA – 09

Department of Comp. Sc. & Info. Systems

Information Processing Center

BITS, Pilani – 333 031, Rajasthan.

Areas/Topics

- Geometric Algorithms
- Graph Algorithms
- Graph Theory
- Randomized Algorithms
- Approximation Algorithms
- Algorithmic Techniques
- Data Structures
- Computational Geometry
- Combinatorial Geometry
- Computer Graphics

Speakers

- Abhiram G. Ranade, IIT-Mumbai
- L. Sunil Chandran, IISc.-B'lore
- Niloy Mitra, IIT-Delhi
- Partha Goswami, Kolkata Univ.
- Sandeep Sen, IIT-Delhi
- Sathish Govindrajan, IISc.-B'lore
- Subhas Nandy, ISI-Kolkata
- Subhasis Banerjee, IIT-Delhi
- Subir Ghosh, TIFR-Mumbai
- Subodh Kumar, IIT-Delhi
- Sudebkumar P. Pal, IIT-Kharagpur
- Swami Sarvattomananda, Vivekananda Univ., Belur
- Vijay Natarajan, IISc.-B'lore

Contact Information

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WORKSHOP ON

INTRODUCTION TO GRAPH & GEOMETRIC ALGORITHMS

22-24 January, 2009

@ BITS, Pilani

Coordinators

Dr. Poonam Goyal, BITS-Pilani

Prof. Navneet Goyal, BITS-Pilani

Prof. Subir Kumar Ghosh, TIFR-Mumbai

Jointly organized by



Birla Institute of Technology &
Science, Pilani
(Deemed University)

&



Tata Institute of Fundamental
Research, Mumbai

(In Birth Centenary Year of Dr. Homi J. Bhabha)

<http://discovery.bits-pilani.ac.in/~TIFR-BITS>

Background

In the last four decades, graph and geometric problems have been studied by Computer Science researchers using the framework of analysis of algorithms. Graph algorithms are one of the oldest classes of algorithms and have been studied for almost 300 years. Graphs provide essential models for many application areas of computer science, and at the same time, they are fascinating objects of study in pure and applied mathematics. There have been a number of exciting recent developments in graph theory that are important for designers of algorithms to know. Correspondingly, the algorithmic viewpoint of Computer Science has stimulated much research in graph theory. On the other hand, the main impetus for the development of geometric algorithms came from the progress in computer graphics, and CAD/CAM. The success of the field can be explained from the beauty of the geometry problems studied, the solutions obtained, and by the many application domains—computer graphics, GIS, robotics and others, in which geometric algorithms play a crucial role.

Objectives

This introductory workshop will provide an opportunity to the participants for getting exposed to the field of graph and geometric algorithms. Such an exposure may benefit them in future in solving graph and geometric problems and designing new algorithms. With this objective, graph and geometric theory and algorithms for some problems will be presented by a distinguished panel of speakers.

Participants

Teachers and students of Computer Science and Engineering are eligible to attend this workshop. Participants are expected to have taken introductory courses in Discrete Mathematics, Data Structures, and Algorithms. Engineers and IT professionals working in industry are also eligible to attend the workshop.

Benefits

Participants will be exposed to key tools and techniques in the field of graph and geometric algorithms. Speakers are key figures in their respective research areas, and the purpose of the workshop is to expose students, teachers, and IT professionals to various key developments in these research areas. This will help the participants in designing, analyzing and implementing complex software, especially arising in the field of robotics, geographical information systems, route planning, wireless and mobile networks. Participants will get a chance of face-to-face interaction with experts on specific problems. Workshop will lead to active collaboration between participants and resource persons in these areas.

About the Institute

BITS, Pilani is a deemed to be University. It is a multi-campus university with campuses in India (Pilani, Goa, & Hyderabad) & abroad (Dubai). BITS, Pilani is known for its flexible & modular academic curriculum with strong emphasis on University–Industry linkages. BITS offers innovative dual-degree scheme and has a strong off-campus work integrated learning program for working professionals.

www.bits-pilani.ac.in

WORKSHOP ON INTRODUCTION TO GRAPH & GEOMETRIC ALGORITHMS Registration Form

NAME _____

Qualification _____

Designation & _____
Department _____

Organization _____

Mailing Address _____

Contact Nos. (Off.) _____
(Mob.) _____

Email: _____

Registering as:

- Full-time Student (UG, PG, Ph.D.)
- Faculty
- Scientist (Govt. Inst.)
- Industry Professional

Draft No. _____ Dated _____
*(In favour of "BIRLA INSTITUTE OF
TECHNOLOGY & SCIENCE, PILANI",
payable at State Bank of Bikaner & Jaipur,
Pilani, or UCO bank, Pilani)*

Place: _____

Date: _____ Signature of Applicant